

Fig. 1

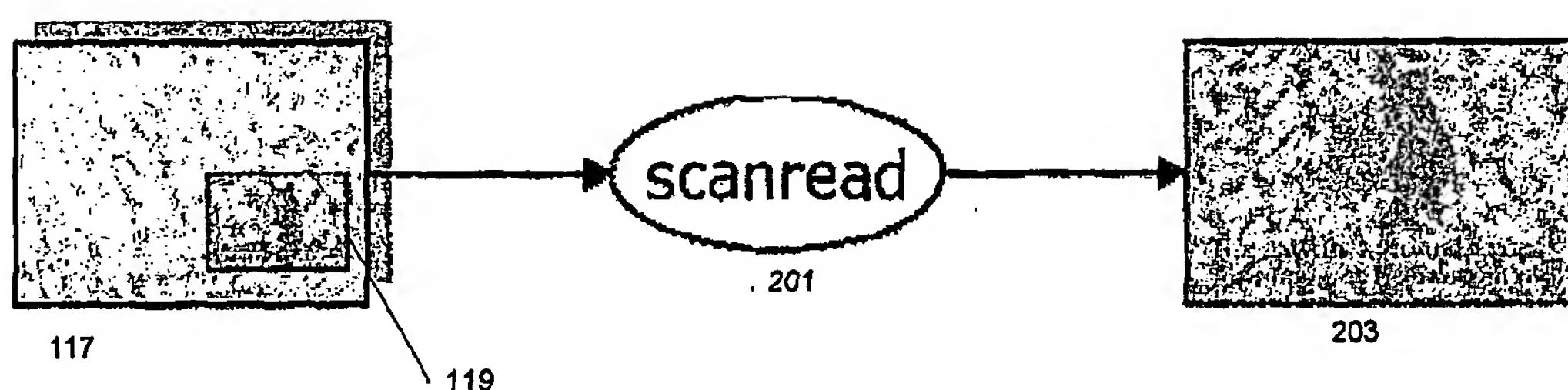


Fig. 2

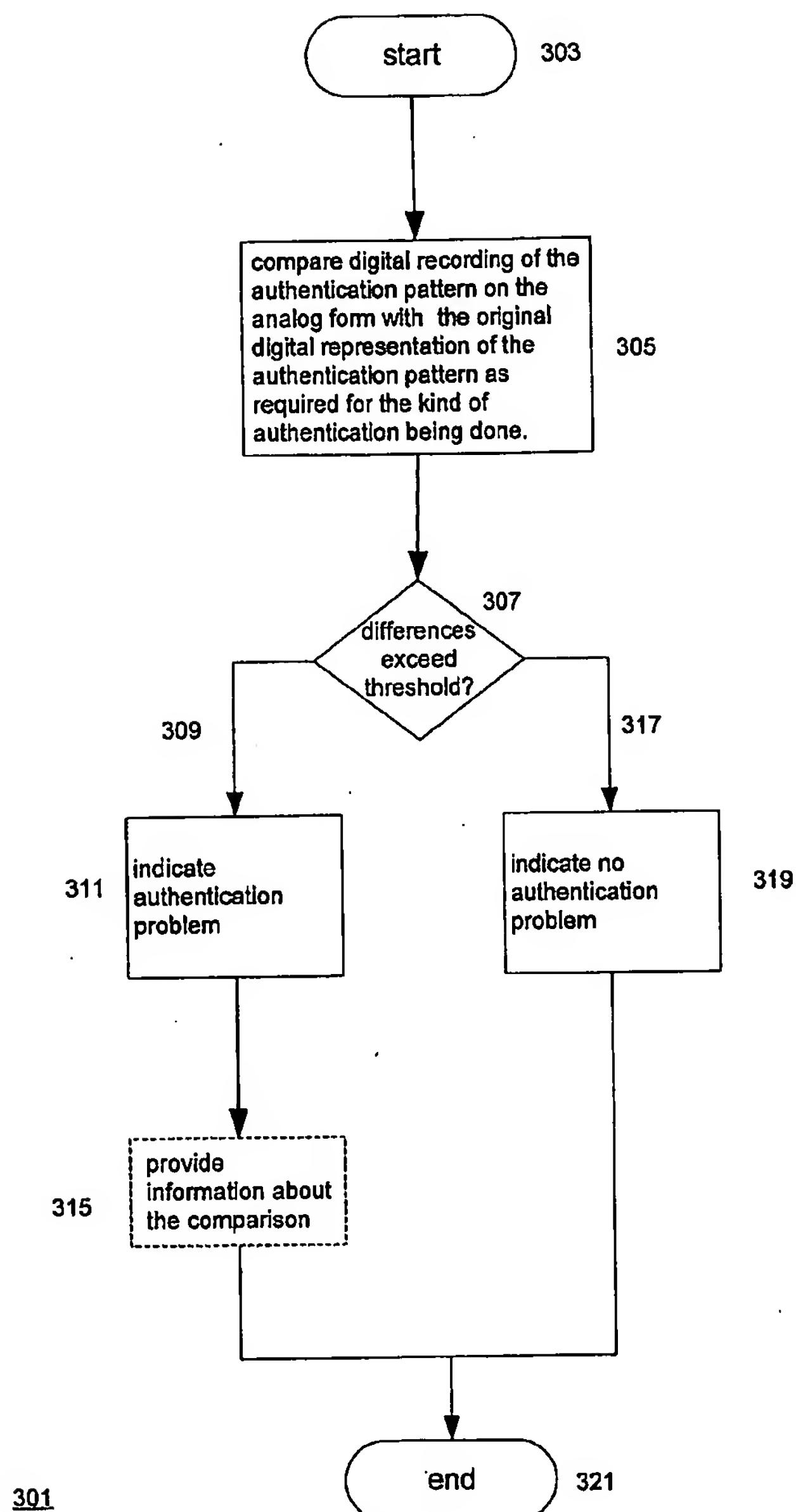
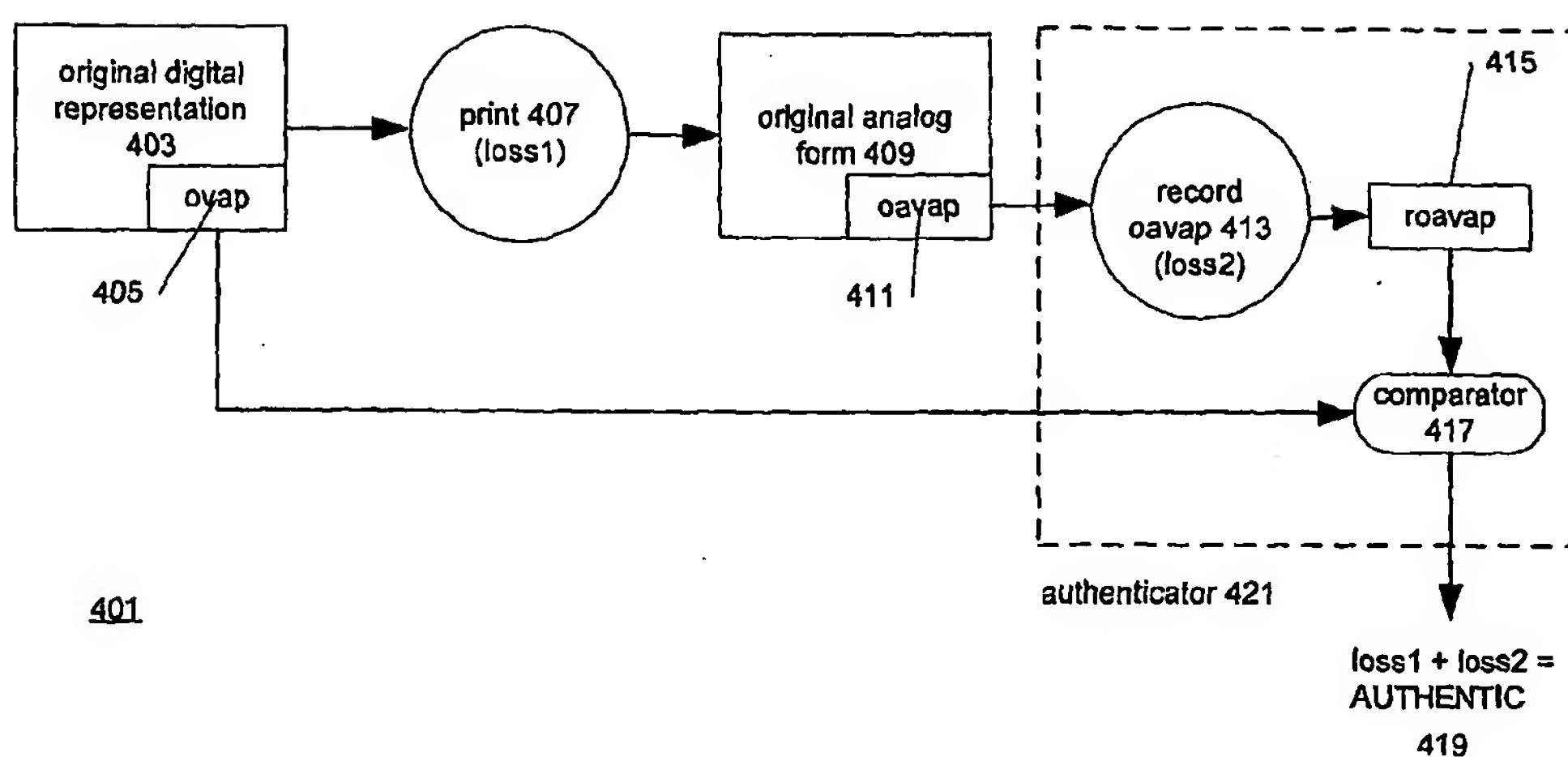


Fig. 3

Scenario 1: printing and authentication of an original analog form



Scenario 2: printing and authentication of a non-original analog form

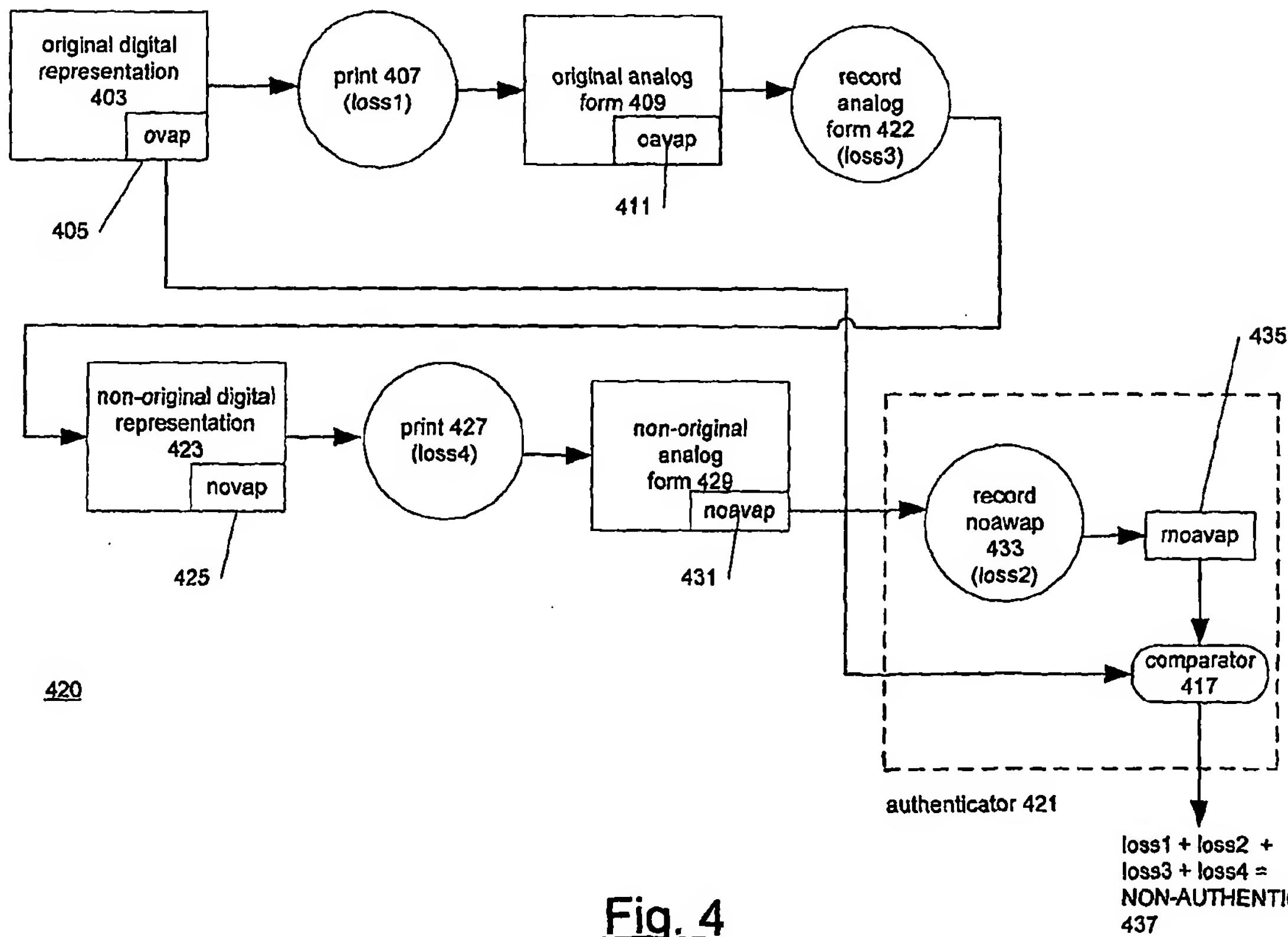
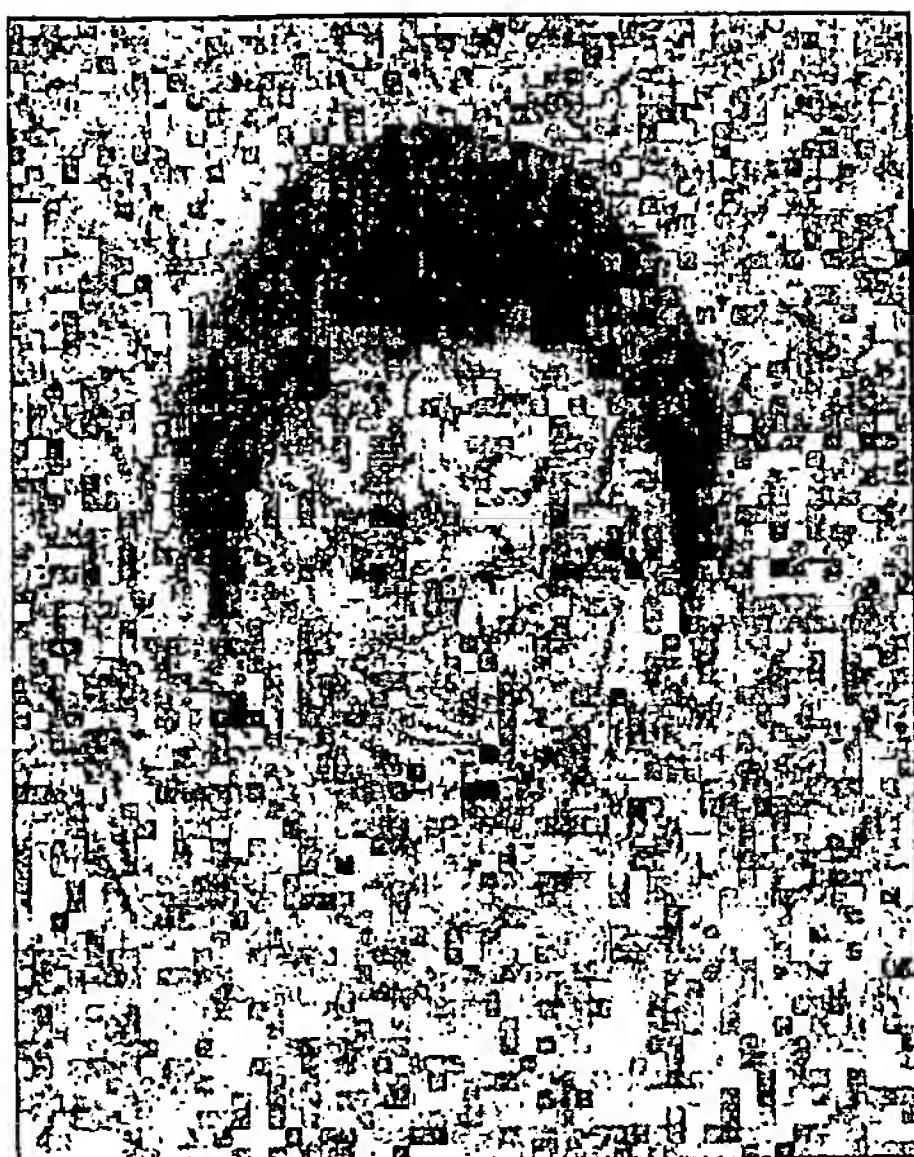
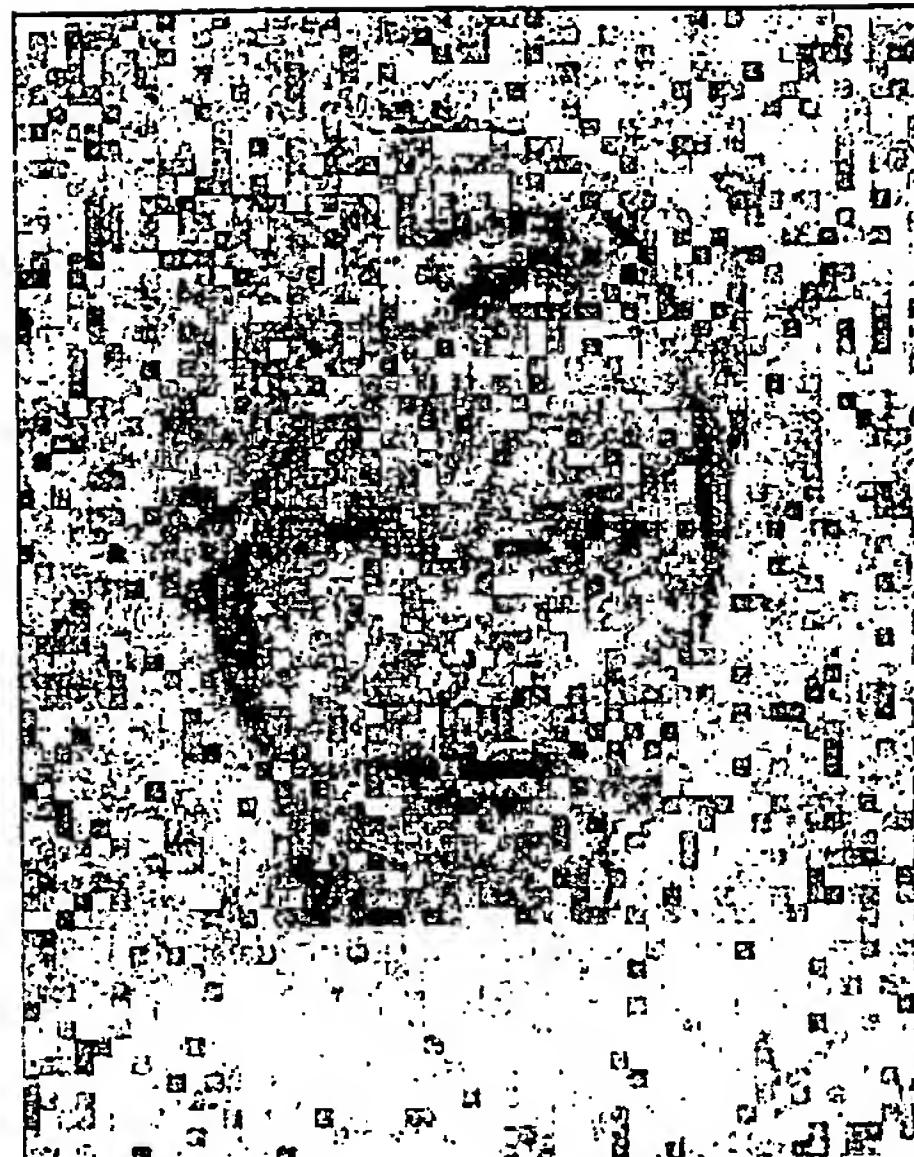


Fig. 4



501



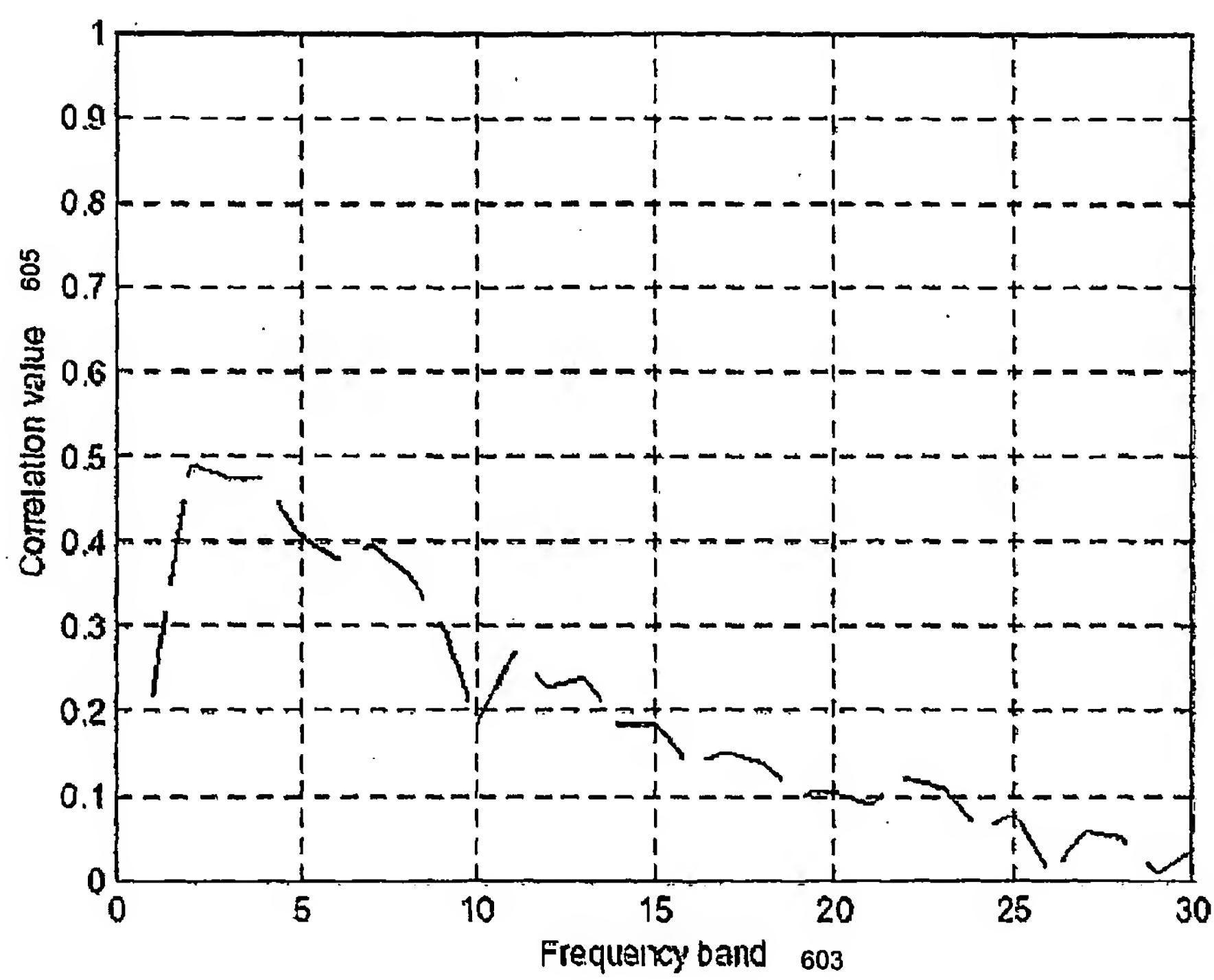
502



503

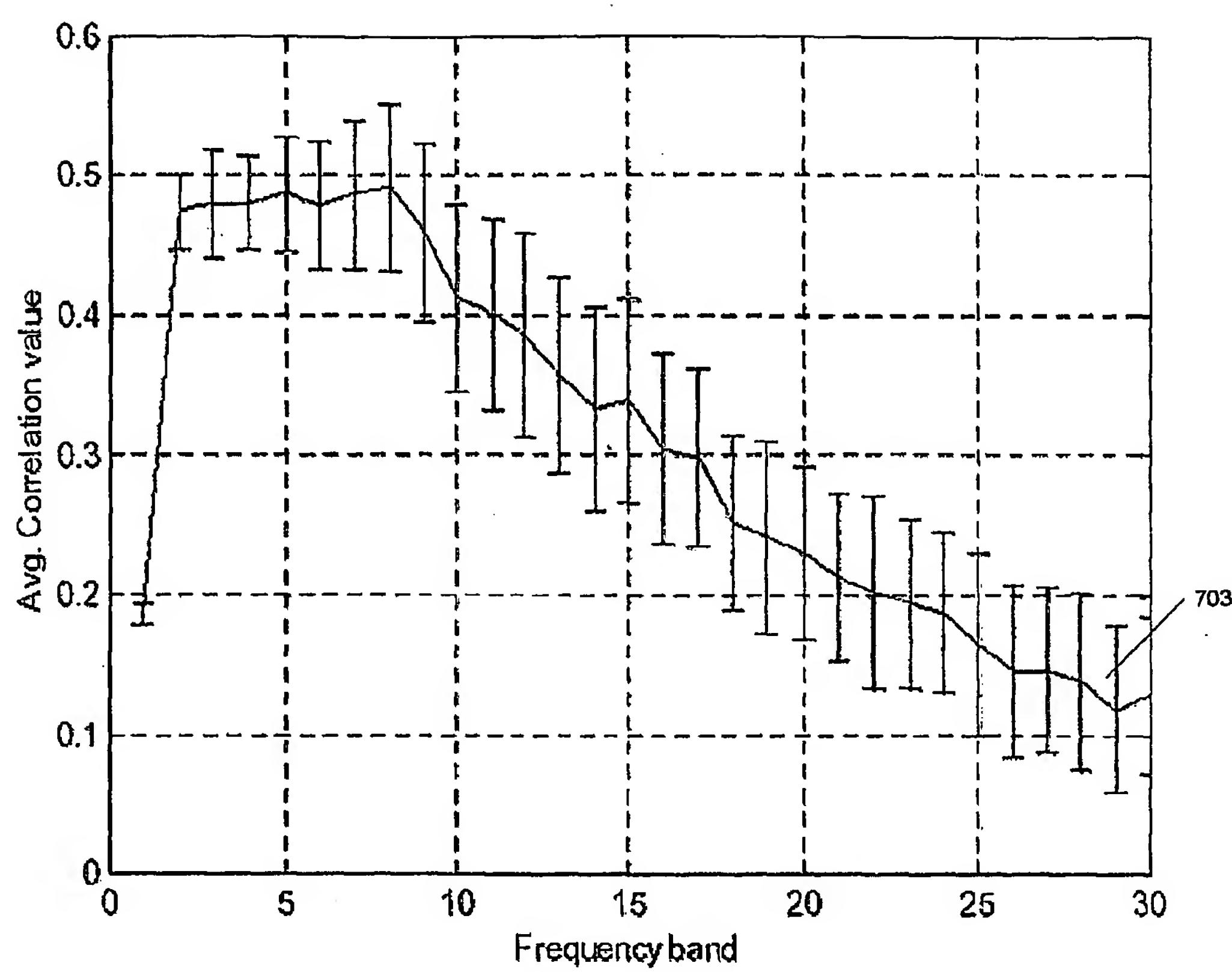
505

Fig. 5



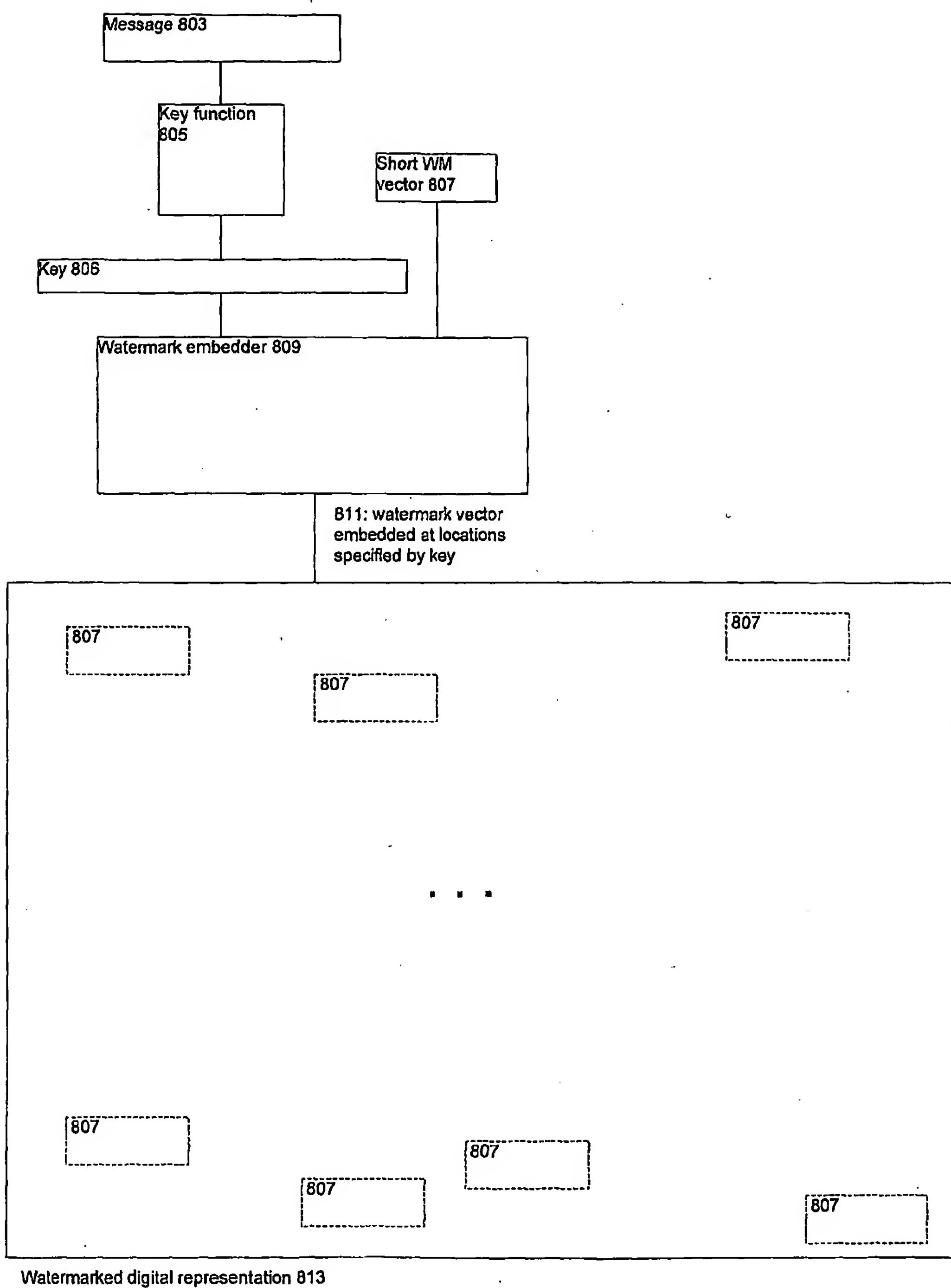
601

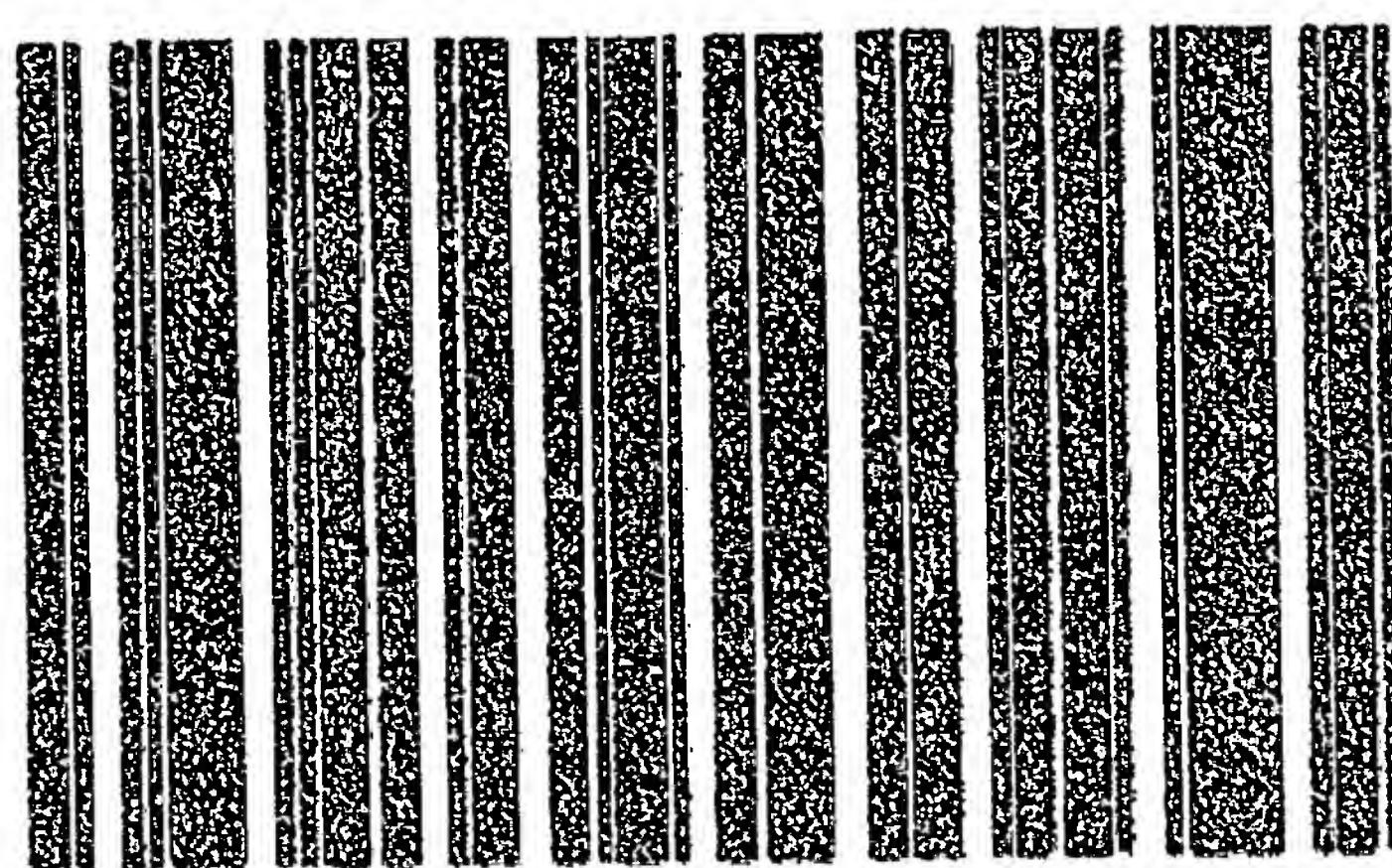
Fig. 6



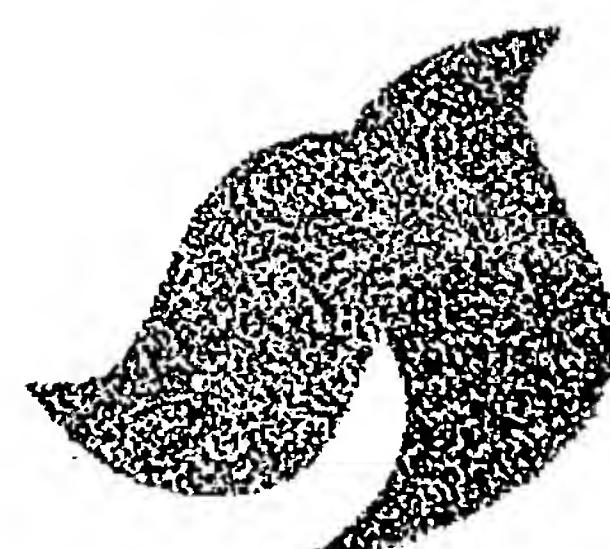
701

Fig. 7



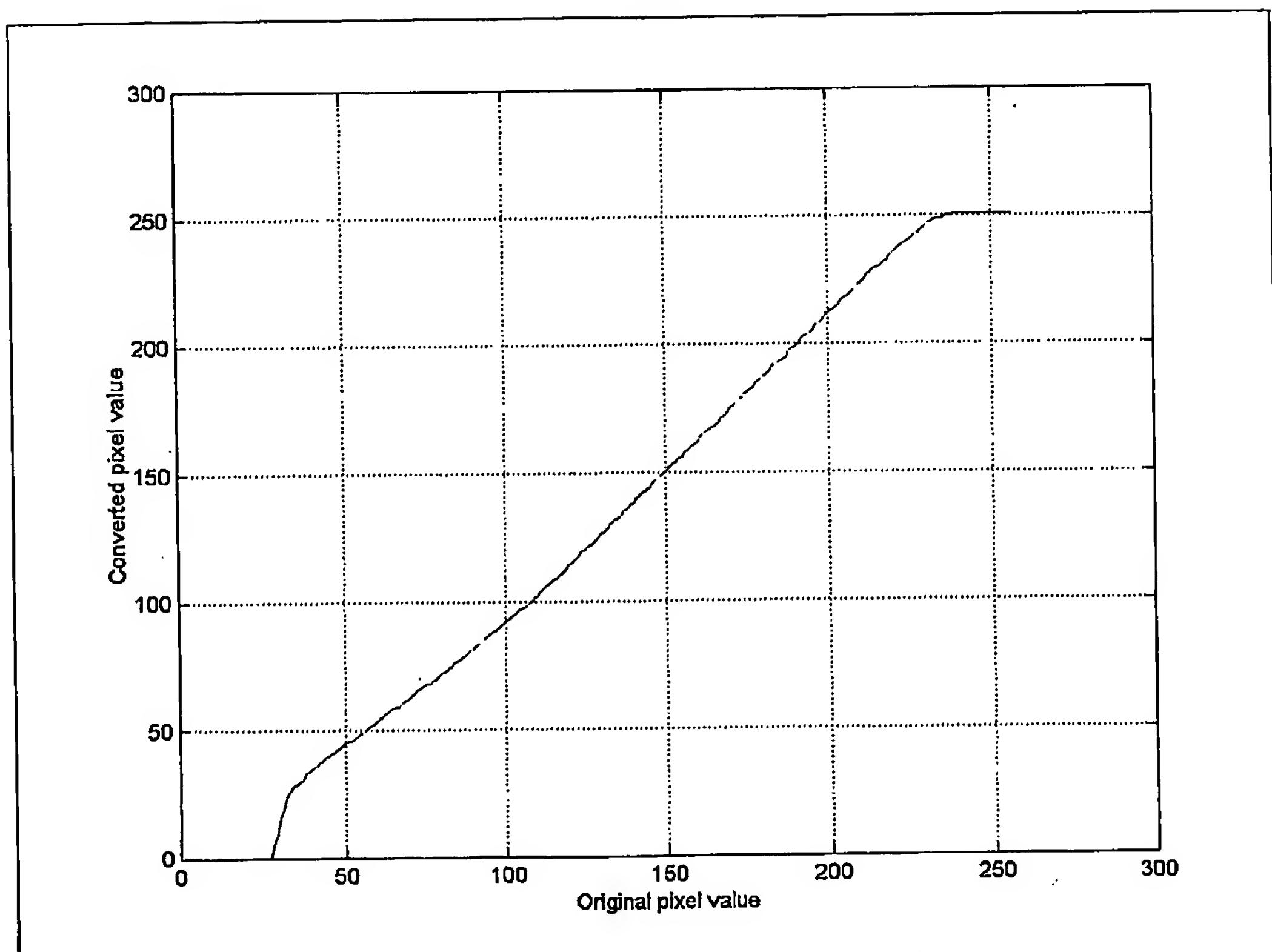


901



903

Fig. 9



1001

Fig. 10

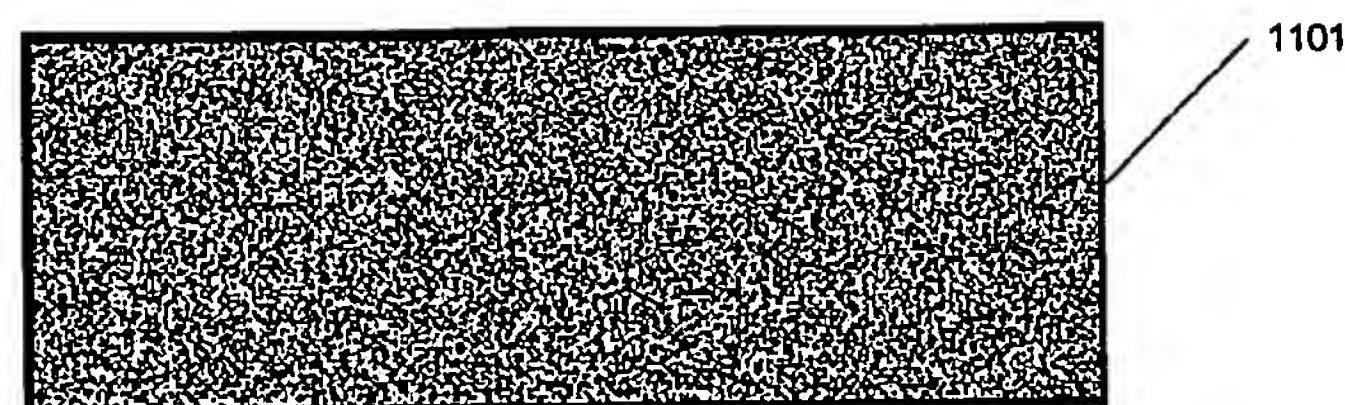


Fig. 11

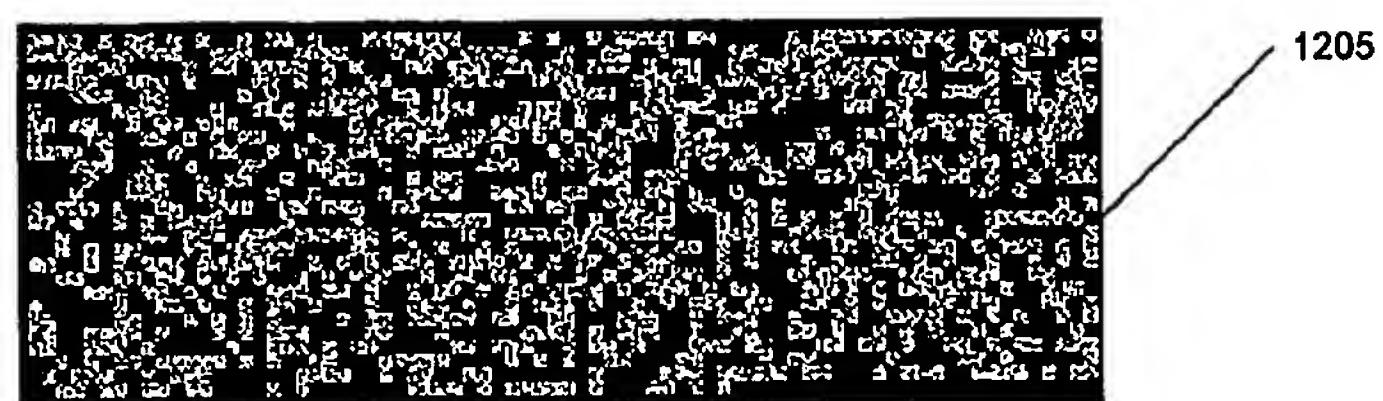
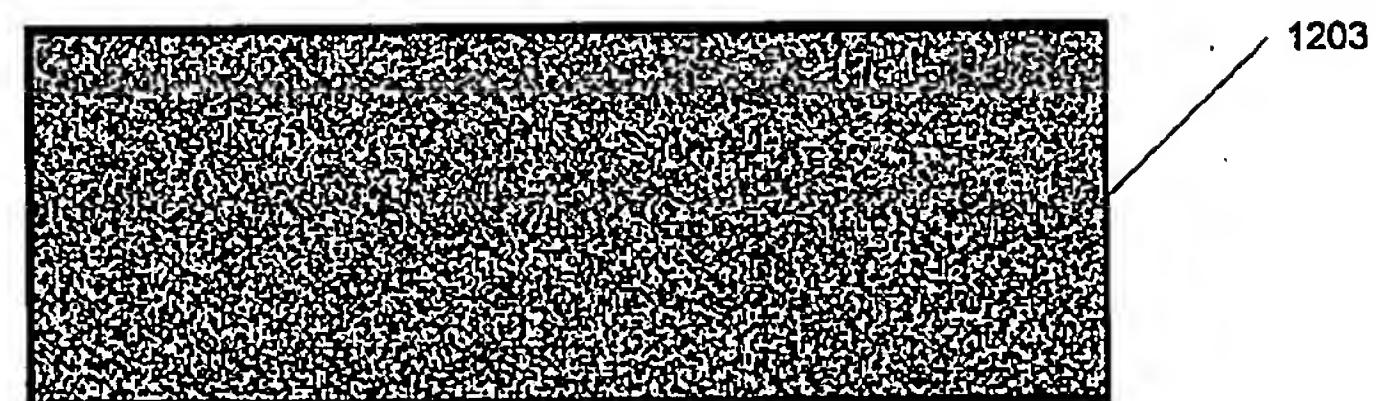
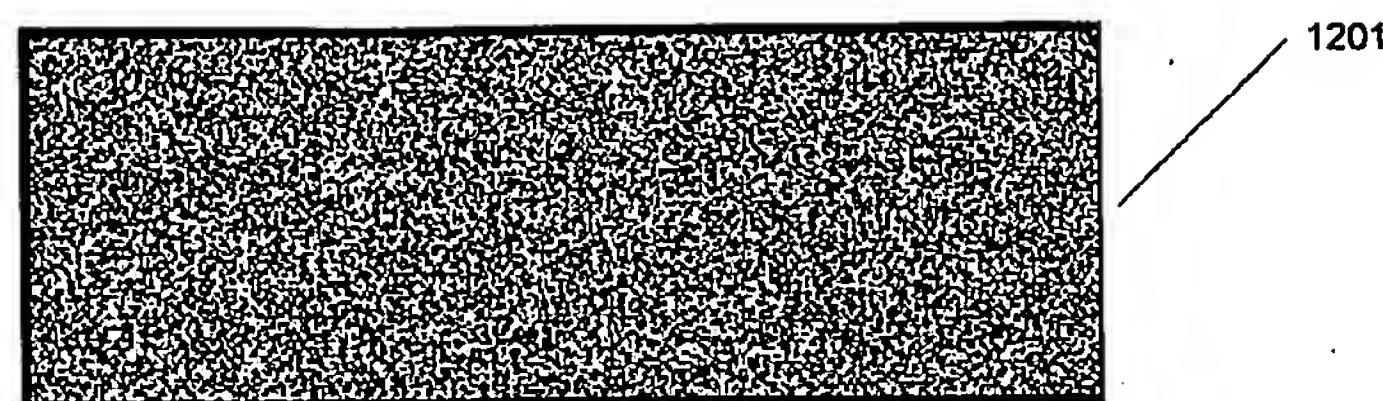
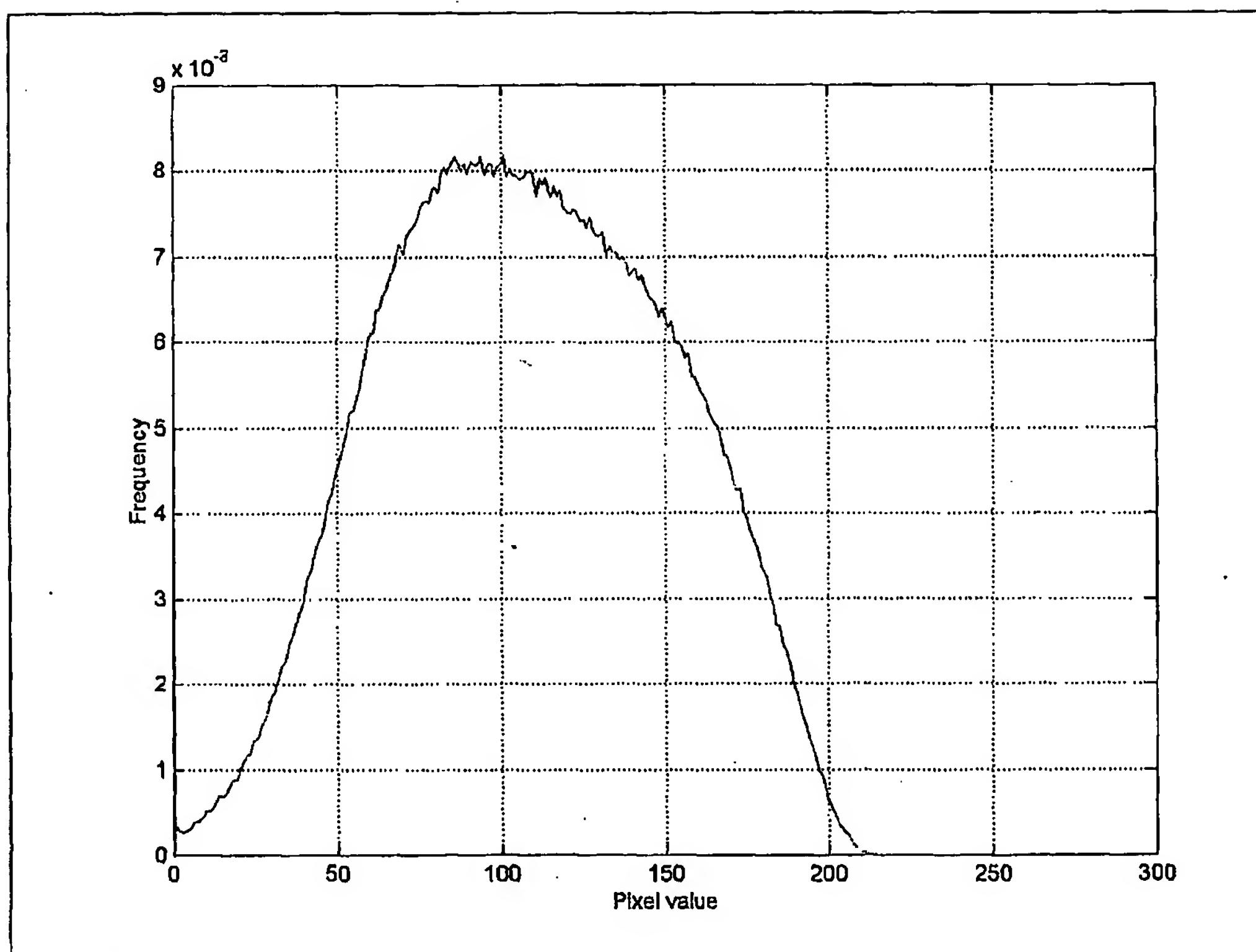
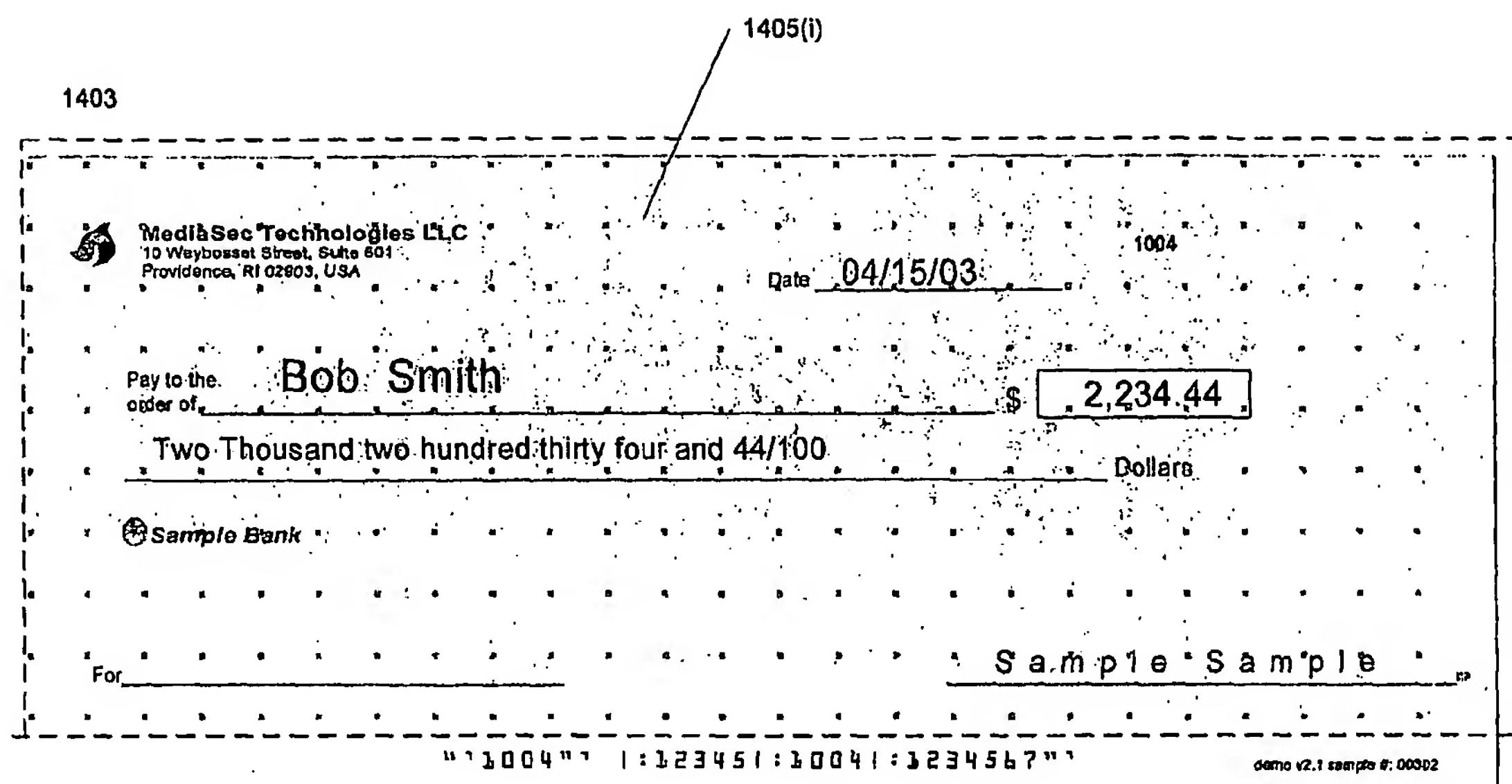


Fig. 12



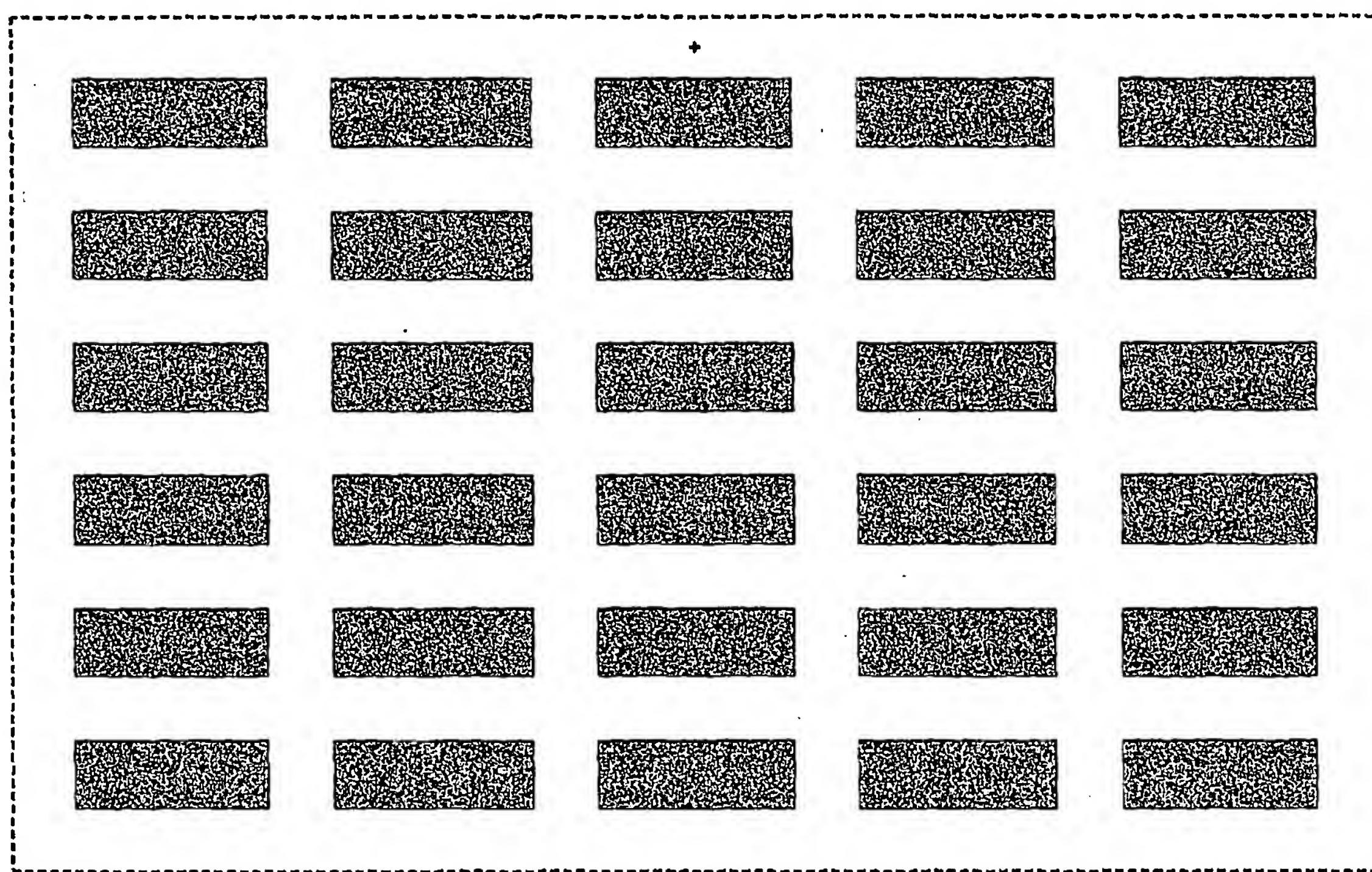
1301

Fig. 13



1401

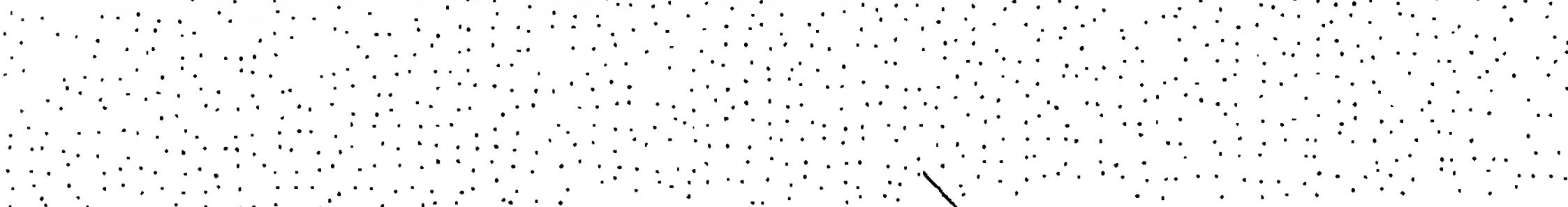
Fig. 14



1501

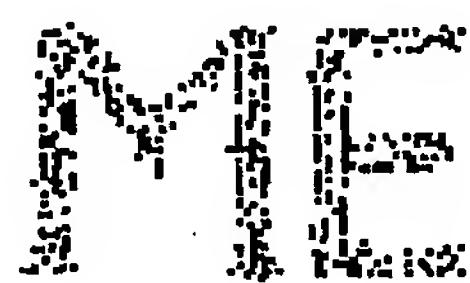
Fig. 15

Obviously, the multiple CDP digital image has to be printed on the printer that will be used in the application, with the same printing parameters, and has to be scanned with the scanner of the application, with the same parameters as well. Not observing this, or using the wrong threshold and parameters, may, may lead to a less reliable detection, if not to completely wrong results.



1601

1602



1603

Fig. 16

1701

| | | | |
|-----|-----|-----|-----|
| 243 | 228 | 210 | 236 |
| 59 | 195 | 114 | 189 |
| 155 | 117 | 158 | 45 |
| 124 | 5 | 203 | 104 |

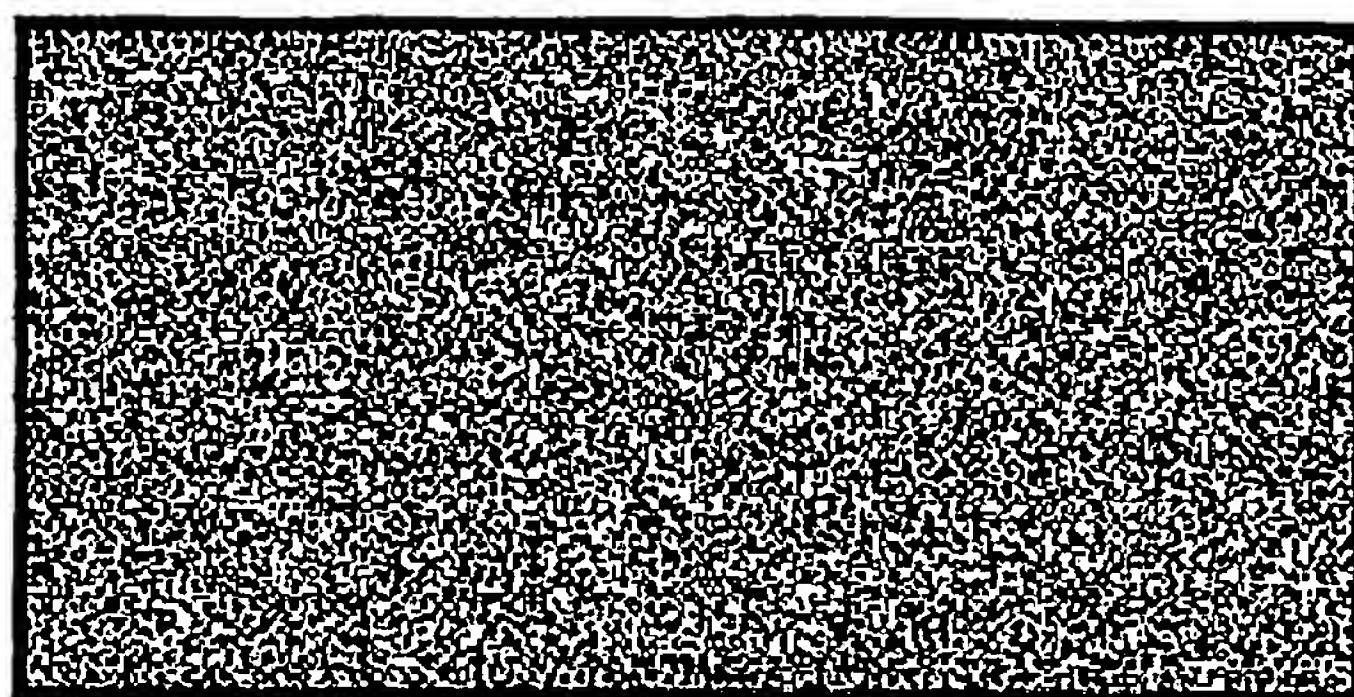
1702

| | | | |
|-----|-----|-----|-----|
| 12 | 27 | 45 | 19 |
| 196 | 60 | 141 | 66 |
| 100 | 138 | 97 | 210 |
| 131 | 250 | 52 | 151 |

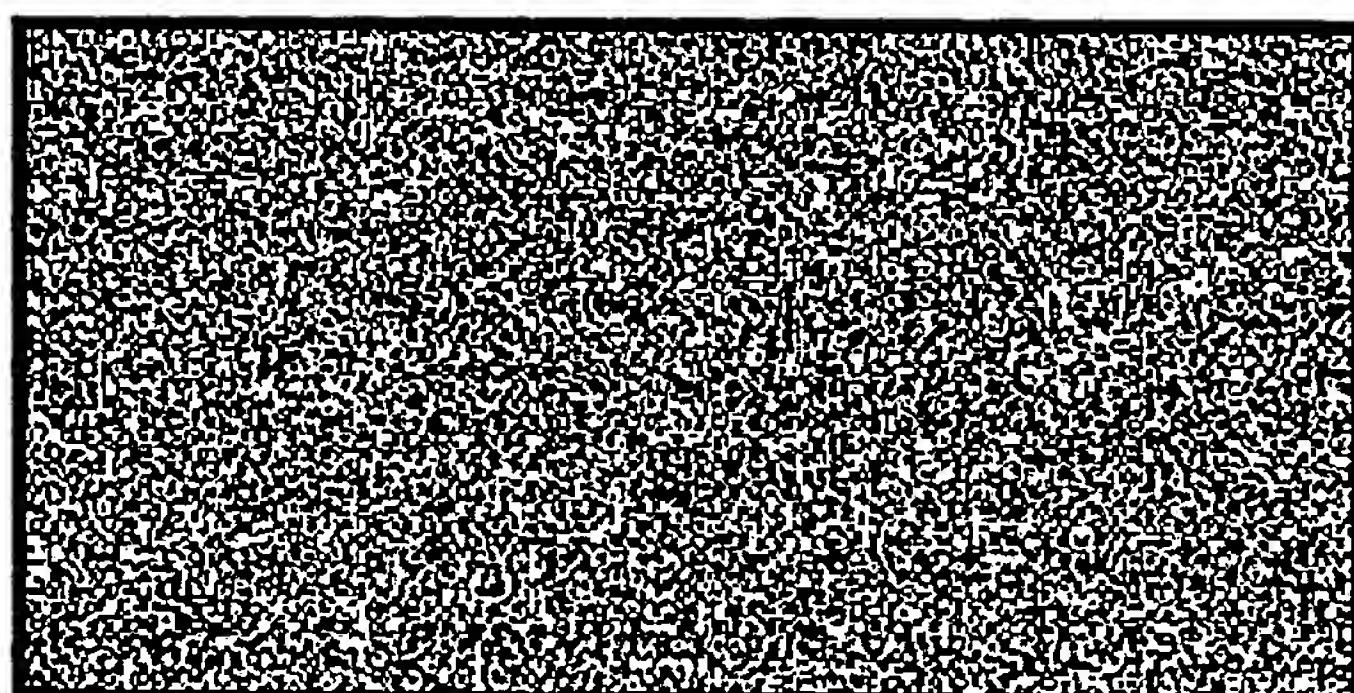
1703

| | | | |
|-----|-----|-----|-----|
| 44 | 36 | 24 | 10 |
| 198 | 20 | 167 | 83 |
| 97 | 159 | 135 | 198 |
| 106 | 299 | 10 | 172 |

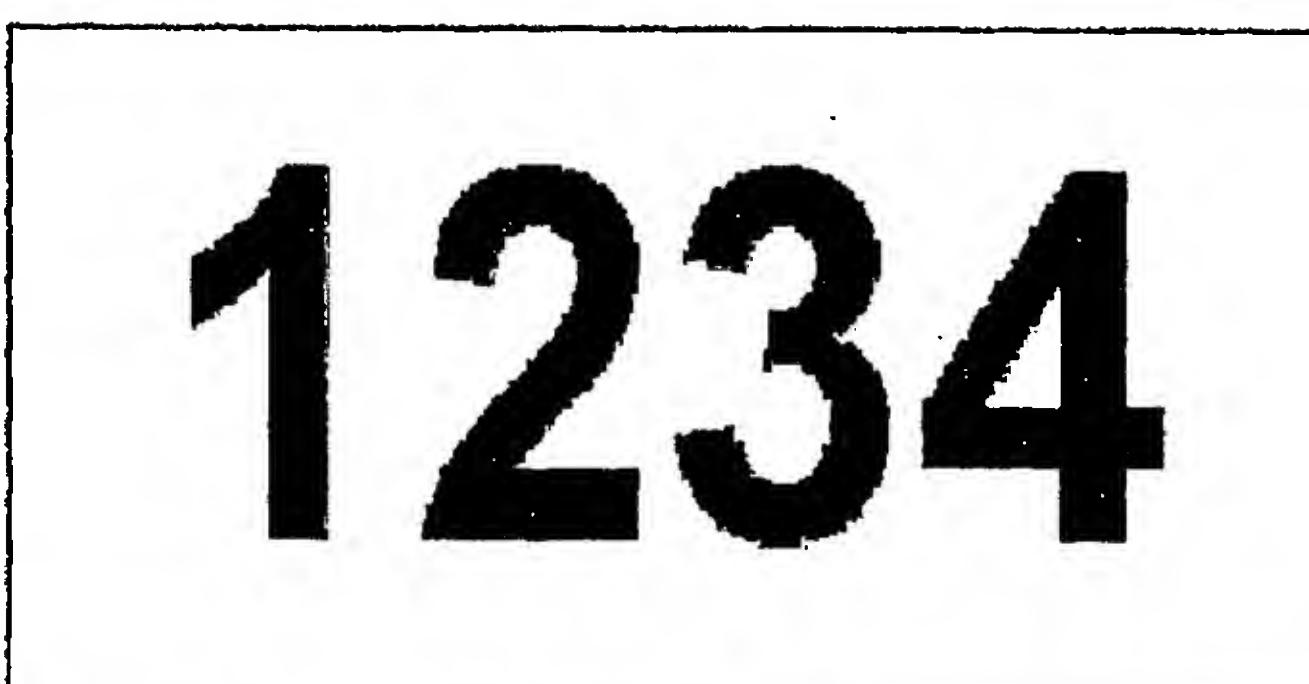
vap0 1801



vapk 1803



VM 1805



1807



Fig. 18